

WHAT IS CLAIMED IS:

1. A method of furnishing illegal mobile equipment user information, comprising:

obtaining illegal mobile equipment user information through a service grade inquiry at security furnishing system that received a request for service grade of mobile equipment from a switching system;

storing the information; and

reporting the illegal mobile equipment user information to a system operator.

2. The method of claim 1, wherein the step of storing the information comprises:

receiving an International Mobile Equipment Identity (IMEI) request message including mobile equipment user information from the switching system;

inquiring of a service grade of the IMEI by retrieving user information database;

and

when the service grade is classified as an illegal IMEI, storing the mobile equipment user information in the user information database.

3. The method of claim 1, wherein the illegal mobile equipment user information is stored in the user information database of an Equipment Identity Register (EIR) or an Authentication Center (AUC) furnishing security service.

4. The method of claim 2, wherein the IMEI request message comprises IMEI information, International Mobile Station Identity (IMSI) information, and Mobile Subscriber Integrated Service Digital Network (MSISDN) information.

5. The method of claim 2, wherein the user information database stores the IMEI, a type of mobile equipment, a physical status of mobile equipment, a service grade of mobile equipment, a first registration time of mobile equipment, an access IMSI, an access MSISDN, a node information, and access time information.

6. The method of claim 2, further comprising:
when the service grade is classified as an illegal IMEI, recording the mobile equipment user information in an illegal mobile equipment user file.

7. The method of claim 2, further comprising:
reporting the mobile equipment user information to an operator through an administration system which administrates the switching system.

8. The method of claim 2, further comprising:
reporting the mobile equipment user information to an operator through a Customer Service Billing System (CSBS) which manages a mobile communication network service subscriber.

9. The method of claim 8, wherein the step of reporting the information to an operator through the CSBS comprises:

generating an illegal mobile equipment access alarm message using the mobile equipment user information; and

transmitting the illegal mobile equipment access alarm message to the CSBS.

10. The method of claim 9, wherein the illegal mobile equipment access alarm message comprises an IMEI, a type of mobile equipment, a physical status of mobile equipment, a service grade of mobile equipment, a first registration time of mobile equipment, an access IMSI, an access MSISDN, node information, and access time information.

11. The method of claim 9, wherein the step of reporting the information to the operator through the CSBS further comprises: when transmission of the illegal mobile equipment access alarm message fails, transmitting illegal mobile equipment access alarm file to the CSBS.

12. The method of claim 11, wherein the illegal mobile equipment access alarm file includes an IMEI, a type of mobile equipment, a physical status of mobile equipment, a service grade of mobile equipment, a first registration time of mobile equipment, an access IMSI, an access MSISDN, node information, and access time information.

13. The method of claim 11, wherein when transmission of the illegal mobile equipment access alarm message fails, the step of transmitting the illegal mobile equipment access alarm file to the CSBS comprises:

generating the illegal mobile equipment access alarm file using the mobile equipment user information;

monitoring whether or not message transmission and reception with the CSBS is possible; and

transmitting the illegal mobile equipment access alarm file when message transmission and reception is possible.

14. The method of claim 13, wherein the step of transmitting the illegal mobile equipment access alarm file when message transmission and reception is possible comprises:

transmitting an illegal mobile equipment access alarm report message including a high-rank system identification information to the CSBS;

receiving an illegal mobile equipment access alarm report ready message, including file transmission information, from the CSBS;

transmitting the illegal mobile equipment access alarm file to the CSBS using the file transmission information; and

when transmission of the illegal mobile equipment access alarm file is completed, transmitting an illegal mobile equipment access alarm report completion message to the CSBS and receiving illegal mobile equipment access alarm report response message from the CSBS.

15. The method of claim 14, wherein the file transmission information comprises:
account for file transmission, password for account, and directory where the file will be stored.

16. A method of furnishing illegal mobile equipment user information, comprising:

transmitting an IMEI request message including an IMEI and user information of mobile equipment from a switching system to a security furnishing system;

inquiring of a service grade of the IMEI by retrieving user information database at the security furnishing means and transmitting an IMEI response message indicative of the service grade to the switching system; and

when the service grade is classified as an illegal IMEI, storing the mobile equipment user information in the user information database and reporting the mobile equipment user information to operator.

17. The method of claim 16, wherein the mobile equipment user information is stored in a user information database of an Equipment Identity Register (EIR) or an Authentication Center (AUC) furnishing security service.

18. The method of claim 16, wherein the IMEI request message comprises IMEI information, International Mobile Station Identity (IMSI) information and Mobile Subscriber Integrated Service Digital Network (MSISDN) information.

19. The method of claim 16, wherein the user information database stores an IMEI, a type of mobile equipment, a physical status of mobile equipment, a service grade of mobile equipment, a first registration time of mobile equipment, an access IMSI, an access MSISDN, node information, and access time information.

20. The method of claim 16, further comprising:
reporting the mobile equipment user information to an operator through an administration system which administrates the switching system.

21. The method of claim 16, further comprising:
reporting the mobile equipment user information to an operator through a CSBS managing mobile communication network service subscriber.

22. The method of claim 21, wherein the step of reporting the information to operator through the CSBS comprises:

generating an illegal mobile equipment access alarm message using the mobile equipment user information; and

transmitting the illegal mobile equipment access alarm message to the CSBS.

23. The method of claim 22, wherein the illegal mobile equipment access alarm message comprises an IMEI, a type of mobile equipment, a physical status of mobile equipment, a service grade of mobile equipment, a first registration time of mobile equipment, an access IMSI, an access MSISDN, node information, and access time information.

24. The method of claim 22, wherein the step of reporting the information to operator through the CSBS further comprises: when transmission of the illegal mobile equipment access alarm message fails, transmitting an illegal mobile equipment access alarm file to the CSBS.

25. The method of claim 24, wherein the illegal mobile equipment access alarm file includes an IMEI, a type of mobile equipment, a physical status of mobile equipment, a service grade of mobile equipment, a first registration time of mobile equipment, an access IMSI, an access MSISDN, node information, and access time information.

26. The method of claim 24, wherein when transmission of the illegal mobile equipment access alarm message fails, wherein the step of transmitting the illegal mobile equipment access alarm file to the CSBS comprises:

generating the illegal mobile equipment access alarm file using the mobile equipment user information;

monitoring whether or not message transmission and reception with the CSBS is possible; and

transmitting the illegal mobile equipment access alarm file in a case where message transmission and reception is possible.

27. The method of claim 26, wherein the step of transmitting the illegal mobile equipment access alarm file when message transmission and reception is possible comprises:

transmitting an illegal mobile equipment access alarm report message including a high rank system identification information to the CSBS;

receiving an illegal mobile equipment access alarm report ready message, including file transmission information, from the CSBS;

transmitting the illegal mobile equipment access alarm file to the CSBS using the file transmission information; and

when transmission of the illegal mobile equipment access alarm file is completed, transmitting an illegal mobile equipment access alarm report completion message to the CSBS and receiving illegal mobile equipment access alarm report response message from the CSBS.

28. The method of claim 27, wherein the file transmission information comprises: account for file transmission, password for account, and directory where file is stored.